

6FM8

Twin Diode—High-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) $6.3 \pm 10\%$ volts

Current at 6.3 volts. 0.45 amp

Direct Interelectrode Capacitances
(Approx.):^a

Triode Unit:

Grid to plate 1.8 μf

Grid to cathode and heater. 1.5 μf

Plate to cathode and heater 0.16 μf

Diode Units:

Diode-No.1 plate to triode grid 0.05 μf

Diode-No.2 plate to triode grid 0.04 μf

Diode-No.1 cathode to all other
tube electrodes 4.6 μf

Diode-No.2 cathode to all other
tube electrodes 4.8 μf

Diode-No.1 plate to cathode and heater. 2.4 μf

Diode-No.2 plate to cathode and heater. 2.2 μf

Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage 250 volts

Grid Voltage. -3 volts

Amplification Factor. 70

Plate Resistance (Approx.). 58000 ohms

Transconductance. 1200 μmhos

Plate Current 1 ma

Mechanical:

Operating Position. Any

Maximum Overall Length. 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) . 1-9/16" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb. T6-1/2

Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW. 9KR

Pin 1—Diode-No.2

Cathode

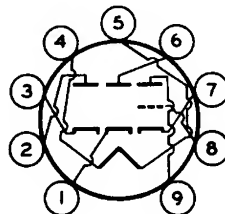
Pin 2—Diode-No.1

Plate

Pin 3—Diode-No.1

Cathode

Pin 4—Heater



Pin 5—Heater

Pin 6—Diode-No.2

Plate

Pin 7—Triode

Cathode

Pin 8—Triode Grid

Pin 9—Triode Plate



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
7-61

6FM8

TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	330	max.	volts
GRID VOLTAGE:			
Positive-bias value	0	max.	volts
PLATE DISSIPATION	1.1	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200 ^b	max.	volts

DIODE UNITS — Two

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE CURRENT	5	max.	ma
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200 ^b	max.	volts

Characteristics, Instantaneous Test Condition:

Plate Current for plate volts = 5	20	ma
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^a without external shield.

^b The dc component must not exceed 100 volts.

